Step up performance. Not size

Pro-level performance combines with true mobility in this amazingly sleek and powerful laptop. Stay productive wherever you're working with integrated or discrete graphics and processor, Alenhanced webcam and audio, and a stunning display—everything you need to collaborate and manage projects anywhere.

Upgrade to pro-level performance

Say goodbye to lags and crashes with fast responsiveness. With up to an Intel® Core™ Ultra 7 CPU with optional Intel vPro®1.2, NVIDIA RTX™ A500 Laptop GPU,³ and 64GB of memory,⁴ open large files and run pro apps simultaneously for speedy multitasking.

Work all day.⁶ Anywhere

Starting at 1.72 kg.⁵ our most mobile ZBook is made to move. With a long-lasting battery this sleek yet durable device is small enough to fit in your bag so you can stay productive anywhere. This is high performance workstation power on the go.

Connect. Communicate. Collaborate

Collaborate effectively wherever you go with ZBook Firefly. The 5MP camera, Al Noise Suppression software to block background noises and Wi-Fi 6E⁹ or 5G options 10 let you seamlessly connect from almost anywhere.



*Product image may differ from actual product

Sustainability in action

Help protect our shared future with PCs that drive towards increasing sustainability

At HP, we care about the impact our products have on our people, communities, and the planet. That's why this device is $EPEAT^{\circ}$ Gold registered ¹² and the outer box packaging is 100% sustainably sourced ¹³.



Featuring

Windows 11

Work without compromising on performance with Windows 11¹ combined with HP's collaboration and security technology.

Intel® Core™ Ultra Processor2

Unleash productivity with a new architecture that delivers power-efficient performance for complex business workloads and is purpose-built for the next era of AI software by sending the right task to the right engine at the right time.

NVIDIA® Graphics

Tackle your biggest projects with an optional NVIDIA RTX™ A500 Laptop GPU;⁴ certified for pro apps.

Lightning-Fast Storage

Blitz through multiple tasks and ditch external drives with up to 2 TB local NVMe storage⁵.

Large Memory Configurations

Power through projects with up to 64 GB RAM⁶ for fast editing and design.

OLED Display

With display technology that lights each pixel separately, you'll get deeper blacks for richer contrast and enhanced color than traditional LED screens.⁴

16:10 Aspect Ratio

The 16:10 aspect ratio reduces the need to scroll by showing 11% more vertical content than a 16:9 aspect ratio display. See more of your project without minimizing program menus or toolbars.

Easy Battery Management

Manage and monitor your battery's performance and condition and customize charging options with the easy-to-use HP Power Manager dashboard.⁹

HP Fast Charge

Long battery life gets you through a day of meetings without plugging in. Quickly recharge your PC with HP Fast Charge. You'll get up to 50% battery life in just 30 minutes of charging. 10

Wi-Fi 6E

Get a fast and reliable connection in dense wireless environments with Wi-Fi 6E. 12

5G WWAN

Connect almost anywhere with optional support for up to 5G wireless broadband technology with 4x4 antennas that can deliver fast download and upload speeds. 13

HP Wolf Security

HP Wolf Security for Business creates a hardware-enforced, always-on, resilient defense. From the BIOS to the browser, above, in, and below the OS, these constantly evolving solutions help protect your PC from modern threats.¹⁵



Technical specifications

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Available Operating Systems	Windows 11 Pro ¹ Windows 11 Pro Education ¹ Windows 11 Home - HP recommends Windows 11 Pro for Business ¹ Windows 11 Home Single Language - HP recommends Windows 11 Pro for Business ¹ Windows 11 Pro (Windows 11 Enterprise available with a Volume Licensing Agreement) ¹ FreeDOS	
Processor family ^{2,3,4,5,6,47}	Intel® Core™ Ultra 5 processor Intel® Core™ Ultra 7 processor	
Available Processors ^{2,3,4,5,6,36,39,47}	Intel® Core™ Ultra 5 135H (up to 3.6 GHz E-core Max Turbo frequency, up to 4.6 GHz P-core Max Turbo frequency, 18 MB L3 cache, 4 P-cores and 8 E-cores, 18 threads) Intel® Core™ Ultra 7 165H (Up to 3.8 GHz E-core Max Turbo frequency, up to 5.0 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores and 8 E-cores, 22 threads), supports Intel® vPro® Technology Intel® Core™ Ultra 7 155H (up to 3.8 GHz E-core Max Turbo frequency, up to 4.8 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores and 8 E-cores, 22 threads) Intel® Core™ Ultra 5 125H (up to 3.6 GHz E-core Max Turbo frequency, up to 4.5 GHz P-core Max Turbo frequency, 18 MB L3 cache, 4 P-cores and 8 E-cores, 18 threads) Intel® Core™ Ultra 7 165U (Up to 3.8 GHz E-core Max Turbo frequency, up to 4.9 GHz P-core Max Turbo frequency, 12 MB L3 cache, 2 P-cores and 8 E-cores, 14 threads), supports Intel® vPro® Technology Intel® Core™ Ultra 7 155U (up to 3.8 GHz E-core Max Turbo frequency, up to 4.8 GHz P-core Max Turbo frequency, 12 MB L3 cache, 2 P-cores and 8 E-cores, 14 threads) Intel® Core™ Ultra 5 135U (up to 3.6 GHz E-core Max Turbo frequency, up to 4.4 GHz P-core Max Turbo frequency, 12 MB L3 cache, 2 P-cores and 8 E-cores, 14 threads), supports Intel® vPro® Technology Intel® Core™ Ultra 5 125U (up to 3.6 GHz E-core Max Turbo frequency, up to 4.3 GHz P-core Max Turbo frequency, 12 MB L3 cache, 2 P-cores and 8 E-cores, 14 threads), supports Intel® vPro® Technology Intel® Core™ Ultra 5 125U (up to 3.6 GHz E-core Max Turbo frequency, up to 4.3 GHz P-core Max Turbo frequency, 12 MB L3 cache, 2 P-cores and 8 E-cores, 14 threads), supports Intel® vPro® Technology	
Chipset	Intel® Integrated SoC	
Maximum memory	64 GB DDR5-5600 non-ECC SDRAM; 8,30	
Memory slots	2 SODIMM; supports dual channel ⁴¹	
Internal storage	256 GB up to 2 TB PCle® Gen4 x4 NVMe™ M.2 2280 TLC SSD ⁷ 256 GB up to 1 TB PCle® Gen4 x4 NVMe™ M.2 2280 TLC SED OPAL 2 SSD ⁷ 256 GB up to 1 TB PCle® Gen4 x4 NVMe™ M.2 2280 SSD ⁷	
Display size (diagonal, metric)	40.6 cm (16")	
Display ^{33,37}	40.6 cm (16") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 400 nits, 100% sRGB; 40.6 cm (16") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 1000 nits, 100% sRGB, HP Sure View Reflect integrated privacy screen; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 300 nits, 45% NTSC; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 300 nits, 45% NTSC	
Available Graphics	Integrated: Intel® Arc™ Graphics; Intel® Graphics ^{27,28,32,50} Discrete: NVIDIA RTX™ A500 Laptop GPU (4 GB GDDR6 dedicated) ^{12,32} (Intel® Iris® X® Graphics capabilities require system to be configured with Intel® Core™ Ultra 5 or Ultra 7 processors and dual channel memory. Intel® Iris® X® Graphics with Intel® Core™ Ultra 5 or Ultra 7 processors and single channel memory will only function as UHD graphics.)	
Audio	Audio by Poly Studio, dual stereo speakers, HP World Facing Microphone dual array digital microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio	
Ports and connectors	Left side: 2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4); 1 USB Type-A 5Gbps signaling rate; 1 HDMI 2.1 ^{25,36,57} ; Right side: 1 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo; Optional Ports: 1 External Nano SIM slot for WWAN	
Input devices	HP Premium Quiet Keyboard - spill-resistant, full-size keyboard with drain and DuraKeys; HP Premium Quiet Keyboard - spill-resistant, full-size, backlit keyboard with drain and DuraKeys; Clickpad with multi-touch gesture support, taps enabled as default; Microsoft Precision Touchpad with gesture support	
Communications	WLAN: Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card, vPro®; Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card, non-vPro®9; WWAN: HP 4000 4G LTE Advanced Pro910	
Camera	5MP Camera; IR Camera (optional) ^{13,14}	
Software	Bing Search for IE11; HP Hotkey Support; HP Noise Cancellation Software; HP Recovery Manager; HP Support Assistant ¹⁸ ; HP Native Miracast Support ²² ; HP Connection Optimizer ²⁶ ; myHP ³⁵ ; HP PC Hardware Diagnostics UEFI; HP PC Hardware Diagnostics Windows; HP Privacy Settings; HP Programmable Key; HP QuickDrop ⁵⁵ ; HP Touchpoint Customizer; HP Services Scan ⁴⁸ ; HP Anyware ²¹ ; Buy Microsoft Office (Sold separately) ¹⁹ ; Copilot in Windows with Copilot key ²⁰	
Security management	HP Sure Click ²⁹⁴³ ; HP Secure Erase ⁴⁰ ; HP Manageability Integration Kit ³⁸ ; HP Sure Sense ²⁴ ; HP BIOSphere Gen6 ²⁴ ; HP Sure Start Gen6 ⁴⁵ ; MS Bitlocker Encryption; Nano Security Lock Slot; HP Image Assistant Gen4.6; HP TPM Configuration Utility; HP Sure Run Gen4 ³¹ ; HP Client Security Manager Gen7 ⁴⁴ ; HP Sure Recover Gen4 with Embedded Reimaging ⁴² ; Secured-core PC capable ³² ; TPM 2.0 Embedded Security Chip; Infineon SLB9670; Camera privacy shutter	
Fingerprint reader	Fingerprint reader (select models)	



Technical specifications

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Management features	HP Client Catalog HP Power Manager ¹⁵ HP Client Management Script Library (download) HP Driver Packs (download) HP Image Assistant Gen5 (download) HP Patch Assistant (download) HP Cloud Recovery ⁵⁶ HP Connect for Microsoft Endpoint Manager ⁴⁶
Memory card device	1 smart card reader (select models)
Power	HP Smart 65 W External AC USB Type-C® power adapter; HP Smart 100 W External AC USB Type-C® power adapter
Battery type	HP Long Life 3-cell, 56 Wh Li-ion polymer; HP Long Life 6-cell, 76 Wh Li-ion polymer ^{30,49} ;
Battery recharge time	Supports battery fast charge: approximately 50% in 30 minutes ²³
Dimensions	35.87 x 25.13 x 1.92 cm; 552 x 69 x 345 mm (Package)
Weight	Starting at 1.79 kg; (Weight varies by configuration and components.)
Ecolabels	EPEAT® registered configurations available 16
Energy star certified	ENERGY STAR® certified
Sustainable impact specifications	Ocean-bound plastic in speaker enclosure; 40% post-consumer recycled plastic; External power supply 90% efficiency; Low Halogen; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable 17.51,52,53,54
4	



Footnotes

Messaging Footnotes

1 Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel® numbering, branding and/or naming is not a measurement of higher performance. Optional, configurable feature that must be configured at purchase.

I have liver 'expenses' with a processor with or 90 46 bit or higher a vibro appoint and processor. Vibro and blook without A moder Vibro EM ANA and TPM 2.0. Some functionality requires additional 3rd party software in order to run. Features of vibro Essentials and Enterprise vary. See

http://intel.com/vpro nal feature that must be configured at purchase

Stowest weight. Weight will vary by configuration.

Stowest weight. Weight will vary by configuration ded. configuration, loaded applications, features, use, wireless functionality and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See MobileMark25 battery benchmark https://bpco.com/products/mobilemark2016/https://bpco.com/products/mobilemark2

Requires the myHP application and Windows OS.

A Noise Suppression is delivered automatically through Windows update or can be downloaded from https://support.hp.com/us-en/drivers. Requires Windows 10 or higher, compatible with internal PC speakers, microphone and analog headsets. The AI Noise Suppression setting can be configured through the Application HP Audio Control.

supported.

In Item 15 G module is optional and must be configured at the factory, Module designed for 5G NR NSA (non-standalone) networks as carriers deploy Evolved-Universal Terrestrial Radio Access New Radio Dual Connectivity (ENDC) with both 100Mhz of 5G NR and LTE channel bandwidth, using 2560AM 4x4 as defined by 3GPP. Module requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Data connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors, Backwards compatible to 4G LTE and 3G HSPA technologies. 5G module planned to be available in select platforms and select countries, where carrier supported.

Passed on USE PEPAT "register tools covering to Elect 16809.12018 EPAT. "PEPAT" selts varies by country Visit www.epatro for more information.

Not all features are available in all editions or versions of Windows Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality, Windows is automatically updated and enabled. High speed internet and Microsoft account requires. Elect 16809.12018 EPAT services are available in require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and enabled. High speed internet and Microsoft account requires. Elect person may apply over time for updates. See http://www.microsoft.

wanted is usaging and/or naming is not a measurement of higher performance. Optional feature that must be configured at purchase.

Optional feature that must be configured at purchase.

Optional feature that must be configured at purchase.

Opposition Configuration (Configuration Section 2) in historia representation of the Configuration of the Configur

WHF 6E requires a WFF 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. WFF 6E is backwards compatible with prior 80211 specs. And available in countries where WFF 6E is supported.

The WFF 6E requires a WFF 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. WFFF 6E is backwards compatible with prior 80211 specs. And available in countries where WFFF 6E is supported.

The WFFF 6E requires a WFFF 6E router, sold separately purchased by the footon of the footon o compatible to 4G LTE and 3G HSPA technologies. 5G module planned to be available in select platforms and select countries, where carrier supported.

Specification Footnotes

¹Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See http://www.indows.com.

Features and software that require a NPU may require a NPU may require enable requirements. Performance varies by use, configuration, and other factors.

Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.

Intel[®] Turbo Boos performance varies depending on hardware, activative and versul system configuration. See www.intel.com/technology/furboboost for more information.

5 In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on http://www.support.hp.com.
6 Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's

numbering, branding and/or naming is not a measurement of higher performance.

For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB (for Windows) is reserved for system recovery software

B The term 10/100/1000° or "Gigabit" Ethernet indicates compatibility with EEE standard 802:3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required. WH 6E requires a WH 16E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. WH 16E is backwards compatible with prior 802.11 specs. And available in countries where WH 16E is supported.

WWAN is an optional feature and requires factory configuration and separately purchased service contract. Check with service provider for coverage and availability in your area. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all

\(^{10}\) WAN is an optional feature and requires factory configuration and separately purchased service contract. Check with service provider for coverage and availability in your area. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products, and in all regions.
\(^{10}\) Actual brightness will be lower with HP Sure View or touch-screen.
\(^{12}\) Both UMA & Discrete configurations support 3 independent displays when on the HP UltraSlim Dock (sold separately) - Max. resolution = 2.5K @60Hz (DP1) & 2.5K @60Hz (DP2) & FHD (VGA), and support 3 independent displays when on the HP Thunderbolt Dock G2 (sold separately) - Max. resolution = 2.5K @60Hz (DP2) & FHD (VGA), and support 3 independent displays when on the HP Thunderbolt Dock G2 (sold separately) - Max. resolution = 2.5K @60Hz (DP2) & FHD (VGA), and support 3 independent displays when on the HP Thunderbolt Dock G2 (sold separately) - Max. resolution = 2.5K @60Hz (DP2) & FHD (VGA), and support 3 independent displays when on the HP Thunderbolt Dock G2 (sold separately) - Max. resolution = 2.5K @60Hz (DP2) & FHD (VGA), and support 3 independent displays when on the HP Thunderbolt Dock G2 (sold separately) - Max. resolution = 2.5K @60Hz (DP2) & FHD (VGA), and support 3 independent displays when on the HP Thunderbolt Dock G2 (sold separately) - Max. resolution = 2.5K @60Hz (DP2) & FHD (VGA), and support 3 independent displays when on the HP Thunderbolt Dock G2 (sold separately) - Max. resolution = 2.5K @60Hz (DP2) & FHD (VGA), and support 3 independent displays when on the HP Thunderbolt Dock G2 (sold separately) - Max. resolution = 2.5K @60Hz (DP2) & FHD (VGA), and support 3 independent displays when on the HP Thunderbolt Dock G2 (sold separately) - Max. resolution = 2.5K @60Hz (DP2) & FHD (VGA), and support 3 independent displays when on the HP Thunderbolt Dock G2 (sold separately) - Max. resolution = 2.5K @60Hz (DP2) & FHD (VGA), and support 3 independent displays when on the HP Thun Microsoft Active Directory and Intel Active Management Technology for select features. For system requirements and to install HP Anyware and Anyware Manager, refer to the Admin Guides at: https://docs.teradici.com/find/product/hp-anyware.

windows is a writeress tearmingly your Pc can use to project your screen to TVs, projectors, and streaming media players that also support Miracast. You can use Miracast to share what you're doing on your PC and present a slide show. For more information: http://windows.microsoft.com/en-us/windows-8/project-wireless-screen-miracast.

Recharges up to 50% within 30 minutes when the system is off or in standby mode when used with the power adapter provided with the notebook. Power adapter minimum of 65 watts required for battery capacities greater than 58Whr. Power adapter minimum of 120 watts required for battery capacities greater than 58Whr. Power adapter minimum of 120 watts required for battery capacities greater than 58Whr. Power adapter minimum of 120 watts required for battery capacities greater than 58Whr. Power adapter minimum of 120 watts required for battery capacities greater than 58Whr. Power adapter minimum of 120 watts required for battery capacities greater than 58Whr. Power adapter minimum of 120 watts required for battery capacities greater than 58Whr. Power adapter minimum of 120 watts required for battery capacities greater than 58Whr. Power adapter minimum of 120 watts required for battery capacities greater than 58Whr. Power adapter minimum of 120 watts required for battery capacities greater than 58Whr. Power adapter minimum of 120 watts required for battery capacities greater than 58Whr. Power adapter minimum of 120 watts required for battery capacities greater than 58Whr. Power adapter minimum of 120 watts required for battery capacities greater than 58Whr. Power adapter minimum of 120 watts required for battery capacities greater than 58Whr. Power adapter minimum of 120 watts required for battery capacities greater than 58Whr. Power adapter minimum of 120 watts required for battery capacities greater than 58Whr. Power adapter minimum of 120 watts required for battery capacities greater than 58Whr. Power adapter minimum of 120 watts required for battery capacities greater than 58Whr. Powe

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36 HDMI colbe sold separately.

37 Resolutions are dependent upon monitor capability, and resolution and color depth settings.

38 HBM Anageobility Integration Kit can be downloaded from http://www.hp.com/go/clientmanagement.

39 Intel vPro* requires Windows 10 Pro 64 bit or higher, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or Wi-Fi 6E WLAN and TPM 2.0. Some functions.

http://intel.com/vpro

40 HP Secure Erase for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method. HP Secure Erase does not support platforms with Intel" Optane".

10 but to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.

14 Due to the non-industry standard nature of some third-party memory memory memory memory memory speed.

15 HP Surper Look is an optional feature that must be configured at the factory and requires a supervisor password be established prior to use.

16 HP Tamper Look is an optional feature that must be configured at the factory and requires a supervisor password be established prior to use.

HP Client Security Manager Gen7 requires Windows and is ovaliable on the select HP Elite and Pro PCs.
HP Client Security Manager Gen7 requires Windows and is ovaliable on the select HP Elite and Pro PCs.
HP Client Security Manager Gen7 requires Windows 10 and higher.
HP Connect for Microsoft Endpoint Manager is ovaliable from the Azure Market Place for HP Pro, Elite, Z and Point-of-Sale PCs managed with Microsoft Endpoint Manager. Subscription to Microsoft Endpoint Manager required and sold separately, Network connection required. HP Sure Admin requires the Control of the Control of the Microsoft Endpoint Manager of the Control of the Control

46 HP Connect for Microsoft Endpoint Manager is available from the Azure Market Place for HP Pro, Elite, Z and Point-of-Sale PCs managed with Microsoft Endpoint Manager. Subscription to Microsoft Endpoint Manager required and sold separately. Network connection required. HP Sure Admin requires Windows 10 or newse, and HP BIOS.

47 Features and software that require a NPU may require many require software purchase, subscription or enablement by a software or platform provider, and third party software may have specific configuration or compositility requirements. Performance varies by use, configuration, and other factors.

48 HP Services Scan is provided with Windows 10 part doubted on select products and will chanke entitlement on each hardware device to determine if an HP TechPulse-enabled service has been purchased, and will download applicable software automatically. HP TechPulse is a telemetry and analytics platform that provides critical data cround devices and applications. For full system requirements or to disable this feature, please visit http://www.hpdaos.com/requirements. Not applicable in China.

48 Fear resultings, shelf life, temperature, environment, loaded applicable software automatically. HP TechPulse is a telemetry and analytics platform that provides critical data cround devices and applicable on the interviorment. Loaded applicable on the definition of the provides and will device such as battery that differs by up to 10, which is typical for ithium-in-orbatteries. Battery capacity naturally decreases over time and with use, depending on several factors such as battery health managements such as battery and analytics platform that provides a such as a suc

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